03/12
03/08

#2

OIPE

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RAW SEQUENCE LISTING DATE: 03/04/2002
PATENT APPLICATION: US/10/077,137 TIME: 14:43:29

Input Set : A:\A080pct.txt
Output Set: N:\CRF3\03042002\J077137.raw

<110> APPLICANT: MacKay, Fabienne
Browning, Jeffrey
Ambrose, Christine
Tschopp, Jurg
Schneider, Pascal
Thompson, Jeffrey
Biogen, Inc.
Apotech R&D S.A.
<120> TITLE OF INVENTION: Baff Receptor (BCMA), An
Immunoregulatory Agent
<130> FILE REFERENCE: A080PCT
C--> **<140> CURRENT APPLICATION NUMBER: US/10/077,137**
C--> **<141> CURRENT FILING DATE: 2001-02-15**
<150> PRIOR APPLICATION NUMBER: 60/149,378
<151> PRIOR FILING DATE: 1999-08-17
<150> PRIOR APPLICATION NUMBER: 60/181,684
<151> PRIOR FILING DATE: 2000-02-11
<150> PRIOR APPLICATION NUMBER: 60/183,536
<151> PRIOR FILING DATE: 2000-02-18
<160> NUMBER OF SEQ ID NOS: 8
<170> SOFTWARE: FastSEQ for Windows Version 4.0
<210> SEQ ID NO: 1
<211> LENGTH: 184
<212> TYPE: PRT
<213> ORGANISM: homo sapien
<400> SEQUENCE: 1

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Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser
 1               5                  10                  15
Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
            20                  25                  30
Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
        35                  40                  45
Val Lys Gly Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu
    50                  55                  60
Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile
65                  70                  75                  80
Ser Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu
                85                  90                  95
Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu
            100                 105                 110
Ile Ile Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys
        115                 120                 125
Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe
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```
57     130                 135                 140
58 Pro Leu Pro Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys
59 145                 150                 155                 160
60 Thr Asn Asp Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu
61                 165                 170                 175
62 Ile Glu Lys Ser Ile Ser Ala Arg
63             180
65 <210> SEQ ID NO: 2
66 <211> LENGTH: 552
67 <212> TYPE: DNA
68 <213> ORGANISM: homo sapien
70 <400> SEQUENCE: 2
71 atgttgcaga tggctgggca gtgctcccaa aatgaatatt ttgacagttt gttgcatgct      60
72 tgcatacctt gtcaacttcg atgttcttct aatactcctc ctctaacatg tcaggttatt     120
73 gtaatgcaag tgtgaccaat tcagtgaaag gaacgaatgc gattctctgg acctgtttgg     180
74 gactgagctt aataatttct ttggcagttt tcgtgctaat gtttttgcta aggaagataa     240
75 gctctgaacc attaaaggac gagtttaaaa acacaggatc aggtctcctg ggcatggcta     300
76 acattgacct ggaaaagagc aggactggtg atgaaattat tctccgagag gcctcgagta     360
77 cacggtggaa gaatgcacct gtgaagactg catcaagagc aaaccgaagg tcgactctga     420
78 ccattgcttt ccactcccag ctatggagga aggcgcaacc attctgtcac cacgaaaacg     480
79 aatgactatt gcaagagcct gccagctgct ttgagtgcta cggagataga gaaatcaatt     540
80 tctgctaggt aa                                                       552
82 <210> SEQ ID NO: 3
83 <211> LENGTH: 207
84 <212> TYPE: PRT
85 <213> ORGANISM: homo sapien
87 <400> SEQUENCE: 3
88 Met Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro Gly Ser
89  1               5                  10                  15
90 Thr Gly Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe
91             20                  25                  30
92 Asp Ser Leu Asp Val Thr Met Leu Gln Met Ala Gly Gln Cys Ser Gln
93         35                  40                  45
94 Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Ile Pro Cys Gln Leu
95     50                  55                  60
96 Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Leu His Ala Cys Ile
97 65                  70                  75                  80
98 Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln
99                 85                  90                  95
100 Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly Gln Arg Tyr
101             100                 105                 110
102 Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly Val Asp Lys Thr His
103         115                 120                 125
104 Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
105     130                 135                 140
106 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
107 145                 150                 155                 160
108 Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
109                 165                 170                 175
```

RAW SEQUENCE LISTING DATE: 03/04/2002
PATENT APPLICATION: US/10/077,137 TIME: 14:43:29

Input Set : A:\A080pct.txt
Output Set: N:\CRF3\03042002\J077137.raw

```
110 Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
111             180                 185                 190
112 Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Tyr Val Val Ser Val
113         195                 200                 205
115 <210> SEQ ID NO: 4
116 <211> LENGTH: 540
117 <212> TYPE: DNA
118 <213> ORGANISM: homo sapien
120 <400> SEQUENCE: 4
121 atggagacag acacactcct gttatgggtg ctgctgctct gggttccagg ttccactggt      60
122 gacgtcacga tgttgcagat ggctgggcag tgctcccaaa atgaatattt tgacagtttg     120
123 ttgcatgctt gcataccttg tcaacttcga tgttcttcta atactcctcc tctaacatgt     180
124 cagcgttatt gtaatgcaag tgtgaccaat tcagtgaaag gagtcgacaa aactcacaca     240
125 tgcccaccgt gcccagcacc tgaactcctg gggggaccgt cagtcttcct cttccccca      300
126 aaacccaagg acaccctcat gatctcccgg acccctgagg tcacatgcgt ggtggtggac     360
127 gtgagccacg aagaccctga ggtcaagttc aactggtacg tggacggcgt ggaggtgcat     420
128 aatgccaaga caaagccgcg ggaggagcag tacaacagca cgtaccgtgt ggtcagcgtc     480
129 ctcaccgtcc tgcaccagga ctggctgaat ggcaaggagt acaagtgcaa ggtctccaac     540
131 <210> SEQ ID NO: 5
132 <211> LENGTH: 140
133 <212> TYPE: PRT
134 <213> ORGANISM: homo sapien
136 <400> SEQUENCE: 5
137 Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
138  1               5                  10                  15
139 Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
140             20                  25                  30
141 Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
142         35                  40                  45
143 Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
144     50                  55                  60
145 Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
146 65                  70                  75                  80
147 Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
148                 85                  90                  95
149 Gly Ser Phe Phe Lys Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
150             100                 105                 110
151 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
152         115                 120                 125
153 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
154     130                 135                 140
156 <210> SEQ ID NO: 6
157 <211> LENGTH: 369
158 <212> TYPE: DNA
159 <213> ORGANISM: homo sapien
161 <400> SEQUENCE: 6
162 aaagccctcc cagcccccat cgagaaaacc atctccaaag ccaaagggca gccccgagaa      60
163 ccacaggtgt acaccctgcc cccatcccgg gatgagctga ccaagaacca ggtcagcctg     120
164 acctgcctgg tcaaaggctt ctatcccagc gacatcgccg tggagtggga gagcaatggg     180
```

RAW SEQUENCE LISTING DATE: 03/04/2002
PATENT APPLICATION: US/10/077,137 TIME: 14:43:29

Input Set : A:\A080pct.txt
Output Set: N:\CRF3\03042002\J077137.raw

cagccggaga acaactacaa gaccacgcct cccgtgttgg actccgacgg ctccttcttc 240
ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc 300
tccgtgatgc atgaggctct gcacaaccac tacacgcaga agagcctctc cctgtctccc 360
gggaaatga 369

<210> SEQ ID NO: 7
<211> LENGTH: 184
<212> TYPE: PRT
<213> ORGANISM: homo sapien
<400> SEQUENCE: 7

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Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser
 1               5                  10                  15
Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
            20                  25                  30
Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
        35                  40                  45
Val Lys Gly Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu
    50                  55                  60
Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile
65                  70                  75                  80
Ser Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu
                85                  90                  95
Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu
            100                 105                 110
Ile Ile Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys
        115                 120                 125
Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe
    130                 135                 140
Pro Leu Pro Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys
145                 150                 155                 160
Thr Asn Asp Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu
                165                 170                 175
Ile Glu Lys Ser Ile Ser Ala Arg
            180
```

<210> SEQ ID NO: 8
<211> LENGTH: 995
<212> TYPE: DNA
<213> ORGANISM: Homo Sapien
<400> SEQUENCE: 8

aagactcaaa cttagaaact tgaattagat gtggtattca aatccttacg tgccgcgaag 60
acacagacag cccccgtaag aacccacgaa gcaggcgaag ttcattgttc tcaacattct 120
agctgctctt gctgcatttg ctctggaatt cttgtagaga tattacttgt ccttccaggc 180
tgttctttct gtagctccct tgttttcttt ttgtgatcat gttgcagatg gctgggcagt 240
gctcccaaaa tgaatatttt gacagtttgt tgcatgcttg cataccttgt caacttcgat 300
gttcttctaa tactcctcct ctaacatgtc agcgttattg taatgcaagt gtgaccaatt 360
cagtgaaagg aacgaatgcg attctctgga cctgtttggg actgagctta ataatttctt 420
tggcagtttt cgtgctaatg tttttgctaa ggaagataag ctctgaacca ttaaaggacg 480
agtttaaaaa cacaggatca ggtctcctgg gcatggctaa cattgacctg gaaaagagca 540
ggactggtga tgaaattatt cttccgagag gcctcgagta cacggtggaa gaatgcacct 600
gtgaagactg catcaagagc aaaccgaagg tcgactctga ccattgcttt ccactcccag 660

RAW SEQUENCE LISTING DATE: 03/04/2002
PATENT APPLICATION: US/10/077,137 TIME: 14:43:29

Input Set : A:\A080pct.txt
Output Set: N:\CRF3\03042002\J077137.raw

218 ctatggagga aggcgcaacc attcttgtca ccacgaaaac gaatgactat tgcaagagcc 720
219 tgccagctgc tttgagtgct acggagatag agaaatcaat ttctgctagg taattaacca 780
220 tttcgactcg agcagtgcca ctttaaaaat cttttgtcag aatagatgat gtgtcagatc 840
221 tctttaggat gactgtattt ttcagttgcc gatacagctt tttgtcctct aactgtggaa 900
222 actctttatg ttagatatat ttctctaggt tactgttggg agcttaatgg tagaaacttc 960
223 cttggtttca tgattaaagt ctttttttt cctga 995

VERIFICATION SUMMARY DATE: 03/04/2002
PATENT APPLICATION: US/10/077,137 TIME: 14:43:30

Input Set : A:\A080pct.txt
Output Set: N:\CRF3\03042002\J077137.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application Number
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date